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Timothy A. Doyle* Gaby L. Longsworth Lori A. Gordon

Nicole D. Dretar Ted J. Ebersole Jyoti C. Iyer

Registered Patent Agents • Karen R. Markowicz Nancy J. Leith Matthew J. Dowd Katrina Yujian Pei Quach Bryan L. Skelton Robert A. Schwartzman Teresa A. Colella Jeffrey S. Lundgren Victoria S. Rutherford

Michelle K. Holoubek Simon J. Elliott Julie A. Heider Mita Mukherjee Scott M. Woodhouse Christopher J. Walsh Liliana Di Nola-Baron Peter A. Socarras

Of Counsel Kenneth C. Bass III Evan R. Smith Marvin C. Guthrie

*Admitted only in Maryland * Admitted only in Virginia • Practice Limited to Federal Agencies

WRITER'S DIRECT NUMBER: (202) 772-8587 INTERNET ADDRESS: PGARRETT@SKGF.COM

Mail Stop Amendment

Re:

U.S. Utility Patent Application

Appl. No. 09/844,432; Filed: April 30, 2001

Timing Recovery and Frequency Tracking System and Method

BUCHWALD et al. Inventors: Our Ref: 1875.0560001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Credit Card Payment Form (PTO-2038);
- Fee Transmittal Form (PTO/SB/17); 2.
- Second Supplemental Information Disclosure Statement; 3.
- Ten (10) sheets of Form PTO-1449 listing ninety-two (92) documents; 4.
- One (1) copy each of sixty-seven (67) documents; and 5.
- One (1) return postcard. 6.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

PEG/WWJ/mlb Enclosures

369226 1.DOC

Steme, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Equivalent to Form PTO/SB/17 (12-04) Approved for use through 07/31/2006. U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Effective on 12/08/2004. es pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). Application Number 09/844,432 **TRANSMIT** Filing Date April 30, 2001 For FY 2005 First Named Inventor BUCHWALD et al. Examiner Name Perilla, Jason M. Applicant claims small entity status. See 37 CFR 1.27 Art Unit 2634 TOTAL AMOUNT OF PAYMENT (\$) 1875.0560001 180.00 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Check X Credit Card Money Order None Other (please identify): 19-0036 X | Deposit Account | Deposit Account Number: Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C. For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) X Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION 1. BASIC FILING, SEARCH, AND EXAMINATION FEES FILING FEES SEARCH FEES EXAMINATION FEES **Small Entity Small Entity Small Entity Application Type** Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) 300 500 200 Utility 150 250 100 200 100 100 130 Design 50 65 Plant 200 100 300 150 160 80 600 300 150 500 300 Reissue 250 **Provisional** 200 100 0 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) **Fee Description** 50 25 Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 100 Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 180 360 Multiple dependent claims

SUBMITTED BY	<u> </u>			
Signature	Patro 2 Danott	Registration No. (Attorney/Agent) 39,98'	7 Telephone	(202) 371-2600
Name (Print/Type)	Patrick E. Garrett		Date a	28/05

Fee Paid (\$)

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If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity)

Number of each additional 50 or fraction thereof

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for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Claims

34

Indep. Claims

__ - 20 or HP

- 3 or HP

3. APPLICATION SIZE FEE

- 100 =

Total Sheets

4. OTHER FEE(S)

Extra Claims

Extra Claims

Extra Sheets

Non-English Specification, \$130 fee (no small entity discount)

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This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

TEW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.: 9072

BUCHWALD et al.

Art Unit: 2634

Appl. No.: 09/844,432

Examiner: Perilla, Jason M.

Filed: April 30, 2001

Atty. Docket: 1875.0560001

For:

Timing Recovery and

Frequency Tracking System

and Method

Second Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.
- - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than

three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than

three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- 6. A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).
- ∑ 7. Copies of the documents listed in the sections entitled 'Foreign Patent
 Documents' and 'Other Documents' are enclosed. However, in accordance
 with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents and patent application
 publications cited on the attached Form PTO-1449 are not enclosed.
- 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No.______,

BUCHWALD *et al.* Appl. No. 09/844,432

- 5 -

filed	, which is relied upon for an earlier filing date under 35
U.S.C. § 120.	Thus, copies of these documents are not attached. 37 C.F.R. §
1.98(d).	

9. It is expected that the examiner will review the prosecution and cited art in parent application no. _____ in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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Page 1 of 10 APPLICATION NO. ATTY, DOCKET NO. **FORM PTO-1449** 09/844,432 1875.0560001 INVENTORS SECOND SUPPLEMENTAL BUCHWALD et al. NFORMATION DISCLOSURE STATEMENT ART UNIT FILING DATE April 30, 2001 2634 **U.S. PATENT DOCUMENTS EXAMINER** SUB-CLASS **FILING DATE** CLASS DOCUMENT NUMBER DATE NAME INITIAL 03/1995 Dukes et al. AA1 5,396,224 Noneman et al. 08/1996 AB1 5,550,546 Kline et al. 5,768,268 06/1998 AC1 Cloke et al. AD1 5,822,143 10/1998 Termerinac et al. 5,881,107 03/1999 AE1 **FOREIGN PATENT DOCUMENTS** EXAMINER TRANSLATION SUB-CLASS COUNTRY CLASS INITIAL DATE DOCUMENT NUMBER N/A 06/2000 EP AF1 EP 1 006 697 N/A 10/2001 EP AG1 EP 1 139 619 N/A 04/2001 wo AH1 WO 01/29991 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Black, Jr., W. and Hodges, D., "Time Interleaved Converter Arrays," IEEE Journal of Solid-State AI1 Circuits, IEEE, Vol. SC-15, No. 6, December 1980, pages 1022-1029. Conroy, C. et al., "An 8-b 85-MS/s Parallel Pipeline A/D Converter in 1-µm CMOS," IEEE Journal of AJ1 Solid-State Circuits, IEEE, Vol. 28, No. 4, April 1993, pages 447-454. Dally, W. and Poulton, J., "Transmitter Equalization for 4Gb/s Signalling," Proceedings of Hot AK1 Interconnects IV, Palo Alto, CA, 1996, 10 pages. Ellersick, W. et al., "A Serial-Link Transceiver Based on 8GSample/s A/D and D/A Converters in 0.25µm CMOS," IEEE International Solid-State Circuits Conference, IEEE, 2001, page 58-59 and AL1 430. Ellersick, W. et al., "GAD: A 12-GS/s CMOS 4-bit A/D Converter for an Equalized Multi-Level Link," AM1 Symposium on VLSI Circuits Digest of Technical Papers, 1999, pages 49-52. Eklund, J-E. and Gustafsson, F., "Digital Offset Compensation of Time-Interleaved ADC Using Random Chopper Sampling," IEEE International Symposium on Circuits and Systems, IEEE, May AN1 28-31, 2000, pages III-447 thru III-450. DATE CONSIDERED **EXAMINER EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

EXAMINER INITIAL AA AA AA AA	SECOI	DOCUMENT NUMBER 6,005,445 6,009,534 6,038,269 6,134,268 DOCUMENT NUMBER WO 01/54317 WO 01/65788	U.S. PAT DATE 09/1999 12/1999 12/1999 03/2000 10/2000 FOREIGN P DATE	INVENTORS BUCHWALD et al. FILING DATE April 30, 2001 ENT DOCUMENTS NAME Shih et al. Katakura Chiu et al. Raghavan McCoy ATENT DOCUMENTS COUNTRY	09/84 ART (2634 CLASS	UNIT SUB-CLASS	FILING DATE	
EXAMINER INITIAL AA A	ATION A2 AB2 AC2 AD2 AE2 AF2 AG2	DOCUMENT NUMBER 5,949,820 6,005,445 6,009,534 6,038,269 6,134,268 DOCUMENT NUMBER WO 01/54317	U.S. PAT DATE 09/1999 12/1999 12/1999 03/2000 10/2000 FOREIGN P DATE	BUCHWALD et al. FILING DATE April 30, 2001 ENT DOCUMENTS NAME Shih et al. Katakura Chiu et al. Raghavan McCoy ATENT DOCUMENTS	2634		FILING DATE	
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A		WO 01/65788	07/2001	wo			N/A	
A	H2	WO 01/03/00	09/2001	wo			N/A	
A		WO 01/84702	11/2001	wo			N/A	
		OTHER DOCUMENT	S (Including	a Author, Title, Date, Pe	rtinent Pages,	etc.)	<u> </u>	
	AJ2	Guizani, M. and Al-A	ili, A., "PC-C	ompatible Optical Data Ar	cquisition Unit,'	' <i>Instrumente</i> 099-1102.	ation and	
		Measurement Technology Conference, IEEE, May 10-12, 1994, pages 1099-1102.						
A	AK2	Jenq, YC., "Digital Spectra of Nonuniformly Sampled Signals: A Robust Sampling Time Offset Estimation Algorithm for Ultra High-Speed Waveform Digitizers Using Interleaving" <i>Transactions Instrumentation and Measurement</i> , IEEE, Vol. 39, No. 1, February 1990, pp. 71-75.						
A	AL2	Mason, R. and Taylo	or, J.T., "High sium on Circ	n-Speed Electro-Optic An uits and Systems, IEEE,	alogue to Digita 1993, pages 10	al Converters 081-1084.	s," <i>IEEE</i>	
A	AM2	Niewczas, P. <i>et al.</i> , " Processing System,' 6, December 2000, p	" IEEE Trans	sis of an Optical Current T sactions on Instrumentation 1259.	Fransducer Ope on and Measure	erating with a	a Digital Signa , Vol. 49, No.	
A	AN2	Petraglia, A. and Mit Interleaved Wavefor Vol. 40, No. 5, Octob	m Digitizer,"	ysis of Mismatch Effects in IEEE Transactions on Inc. ges 831-835.	Among A/D Co strumentation a	nverters in a and Measure	Time- ement, IEEE,	

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Page 3 of 10 ATTY. DOCKET NO. APPLICATION NO. CATRADENARY **FORM PTO-1449** 1875.0560001 09/844,432 **INVENTORS** SECOND SUPPLEMENTAL BUCHWALD et al. INFORMATION DISCLOSURE STATEMENT FILING DATE ART UNIT April 30, 2001 2634 **U.S. PATENT DOCUMENTS EXAMINER** SUB-CLASS | FILING DATE NAME CLASS INITIAL DOCUMENT NUMBER DATE 12/2001 Wu AA3 6,329,859 B1 03/2002 Chen 6,359,486 B1 AB3 6,397,048 B1 05/2002 Toda AC3 06/2002 Shimomoura et al. AD3 6,404,525 B1 6,498,694 B1 12/2002 Shah AE3 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL COUNTRY CLASS SUB-CLASS TRANSLATION DOCUMENT NUMBER DATE N/A 11/2001 WO AF3 WO 01/84724 02/2002 wo N/A AG3 WO 02/13424 N/A WO 09/2002 WO 02/071616 AH3 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Sauer-Greff, W. et al., Maximum-Likelihood Sequence Estimation of Nonlinear Channels in High-Speed Optical Fiber Systems, April 6, 2001, Retrieved from the Internet at AI3 http://www.ftw.at/Dokumente/010406a.pdf, 29 pages. Williamson, R.C. et al., "Effects of Crosstalk in Demulitplexers for Photonic Analog-to-Digital Converters," Journal of Lightwave Technology, IEEE, Vol. 19, No. 2, February 2001, pages 230-AJ3 236. Yang, C-K., Design Techniques for High-Speed Chip-to-Chip Links, Retrieved from the Internet at AK3 http://web.doe.carleton.ca/courses/97578/topic5/Tutorial SerialLink.pdf, 31 pages. Yang, C-K. et al., "A Serial-Link Transceiver Based on 8-Gsamples/s A/D and D/A Converters in 0.25-µm CMOS," IEEE Journal of Solid-State Circuits, IEEE, Vol. 36, No. 11, November 2001, AL3 pages 1684-1692. Zuoxi, T., "Implementation of a Digital Multibeam Receiver Based on TMS320C80 for Laser AM3 Optoacoustic Remote Sensing," Proceedings of ICSP2000, IEEE, 2000, pages 2082-2084.

EXAMINER DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Agazzi, O. and Lenosky, T., Algorithm to Postprocess Measured Data, IEEE 802.3ae Equalization

PODEMAR SECOND SUPPLEMENTAL

FORM PTO-1449

ATTY. DOCKET NO. 1875.0560001

APPLICATION NO. 09/844,432

Page 4 of 10

INVENTORS

BUCHWALD et al.

INFORMATION DISCLOSURE STATEMENT FILING DATE ART UNIT April 30, 2001 2634 **U.S. PATENT DOCUMENTS EXAMINER** CLASS SUB-CLASS FILING DATE NAME INITIAL DOCUMENT NUMBER DATE 01/2003 Buchwald et al. 6,509,773 B2 AA4 09/2003 Dahell AB4 6,621,862 B1 09/2004 Buchwald et al. 6.791,388 B2 AC4 Agazzi et al. AD4 2002/0012152 A1 01/2002 2002/0034222 A1 03/2002 Buchwald et al. AE4 **FOREIGN PATENT DOCUMENTS** EXAMINER **TRANSLATION** SUB-CLASS COUNTRY CLASS DOCUMENT NUMBER DATE INITIAL Yes AF4 No Yes AG4 No Yes AH4 No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Agazzi, O., A Link Model for Equalized Optical Receivers, IEEE 802.3ae Equalization Ad Hoc Al4 Group, March 11, 2001, 30 pages. Agazzi, O. et al., DSP-Based Equalization for Optical Channels: Feasibility of a VLSI AJ4 Implementation, IEEE 802.3ae, New Orleans, September 12-14, 2000, 39 pages. Agazzi, O. et al., Interim Observations on Multimode Optical Channels, IEEE 802.3ae -AK4 Equalization Ad Hoc, Tampa, November 5, 2000, 29 pages. Agazzi, O. et al., Measurements of DMD-Challenged Fibers at 3.125Gb/s, IEEE 802.3ae AL4 Equalization Ad Hoc, January 10, 2001, 33 pages. Agazzi, O. and Lenosky, T., "Measurement of Non-Stationarity of 10 Gb/s Multimode Fiber Links," AM4 November 24, 2000, 5 pages. Agazzi, O., 10 Gb/s PMD Using PAM-5 Modulation, IEEE 802.3, Dallas, January 18-20, 2000, 19 AN4 pages. DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 5 of 10 APPLICATION NO. ATTY, DOCKET NO. TRADEMA **FORM PTO-1449** 1875.0560001 09/844,432 **INVENTORS** SECOND SUPPLEMENTAL BUCHWALD et al. INFORMATION DISCLOSURE STATEMENT **FILING DATE ART UNIT** 2634 April 30, 2001 **U.S. PATENT DOCUMENTS EXAMINER** SUB-CLASS | FILING DATE CLASS DOCUMENT NUMBER DATE NAME INITIAL AA5 2002/0044617 A1 04/2002 Buchwald et al. 04/2002 Buchwald et al. AB5 2002/0044618 A1 2002/0080898 A1 06/2002 Agazzi et al. AC₅ 05/2003 Trans et al. AD5 2003/0086515 A1 Buchwald et al. AE5 2004/0212416 A1 10/2004 FOREIGN PATENT DOCUMENTS **EXAMINER** SUB-CLASS TRANSLATION CLASS COUNTRY INITIAL DOCUMENT NUMBER DATE Yes AF5 No Yes AG5 No Yes AH5 No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Agazzi, O. et al., 10 Gb/s PMD Using PAM-5 Trellis Coded Modulation, IEEE 802.3, Alburquerque, AI5 March 6-10, 2000, 38 pages. Bhatt, V., Equalization Ad Hoc Concluding Report, IEEE P802.3ae Plenary, March 2001, 12 pages. AJ5 Bingham, J.A.C., "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," AK5 IEEE Communications Magazine, IEEE, Vol. 28, No. 5, pages 5-8 and 11-14. Chiddix, J. et al., "AM Video on Fiber in CATV Systems: Need and Implementation," IEEE Journal AL5 on Selected Areas in Communications, IEEE, Vol. 8, No. 7, September 1990, pages 1229-1239.

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Areas in Communications, IEEE, Vol. 8, No. 8, October 1990, pages 1520-1534.

Darcie, T., "Subcarrier Multiplexing for Lightwave Networks and Video Distribution Systems," *IEEE Journal on Selected Areas in Communications*, IEEE, Vol. 8, No. 7, September 1990, pages 1240-

Fettweis, G., "High-Rate Viterbi Processor: A Systolic Array Solution," IEEE Journal on Selected

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FEB 2 8 2005 Page 10 of 10 R. Miner ATTY. DOCKET NO. APPLICATION NO. 09/844,432 **FORM PTO-1449** 1875.0560001 **INVENTORS** SECOND SUPPLEMENTAL BUCHWALD et al. INFORMATION DISCLOSURE STATEMENT FILING DATE **ART UNIT** April 30, 2001 2634 **U.S. PATENT DOCUMENTS EXAMINER** CLASS SUB-CLASS | FILING DATE NAME INITIAL DOCUMENT NUMBER DATE **AA10** AB10 AC10 AD10 AE10 **FOREIGN PATENT DOCUMENTS EXAMINER** CLASS SUB-CLASS TRANSLATION DOCUMENT NUMBER DATE COUNTRY INITIAL Yes **AF10** No Yes AG10 No Yes AH10 No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Winters, J. et al., "Reducing the Effects of Transmission Impairments in Digital Fiber Optic Al10 Systems," IEEE Communications Magazine, IEEE, June 1993, pages 68-76. Progress Report on Equalization of Multimode Fibers, IEEE 802.3ae Ad Hoc Group on AJ10 Equalization, January 12, 2001, 16 pages. Alderrou, D. et al., XAUI/XGXS Proposal, IEEE 802.3ae Task Force, May 23-25, 2000, 28 pages. AK10 Winters, J.H. and Gitlin, R., "Electrical Signal Processing Techniques in Long-Haul, Fiber-Optic Systems," IEEE International Conference on Communications, IEEE, Vol. 1, April 16-19, 1990, AL₁₀ pages 0397-0403.

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